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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/019,577	i	2/21/2001	Peter Schertl	Mo6856/LeA 33,769	1797	
157	7590	07/21/2004		EXAMINER		
		L SCIENCE LLC	RABAGO, ROBERTO			
100 BAYER ROAD PITTSBURGH, PA 15205				ART UNIT	PAPER NUMBER	
	,			1712		

DATE MAILED: 07/21/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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2000 American	Application No.	Applicant(s)	7)
	10/019,577	SCHERTL ET AL.	U
Office Action Summary	Examiner	Art Unit	
	Roberto Rábago	1713	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet w	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a replection of the provision of the period for reply specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by stature Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a r ply within the statutory minimum of thin I will apply and will expire SIX (6) MON te, cause the application to become AE	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).	
Status			
 1) Responsive to communication(s) filed on 17 / 2a) This action is FINAL. 2b) This action is FINAL. 2b) This action is in condition for allowed closed in accordance with the practice under 	is action is non-final. ance except for formal matt	· ·	
Disposition of Claims			
4) ☐ Claim(s) 1-5,7-11,13-21 and 23 is/are pendin 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1,3,5,7,10,11,13-19,21 and 23 is/are 7) ☐ Claim(s) 2,4,8,9 and 20 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/	awn from consideration.	•	
Application Papers			
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	cepted or b) objected to edrawing(s) be held in abeyar ction is required if the drawing	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d)).
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list	nts have been received. Its have been received in A Ority documents have been au (PCT Rule 17.2(a)).	pplication No received in this National Stage	
Attachment(s)			
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 	Paper No(s	ummary (PTO-413))/Mail Date formal Patent Application (PTO-152) 	

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 5/17/2004 has been entered.

Prior rejections and objections are withdrawn in view of amendment.

Claim Objections

2. Claim 18 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. The inclusion of vanadium is not within the scope of the parent claim, and the remaining species do not narrow the scope of metals as recited in the parent claim.

Claim Rejections - 35 USC § 102

3. Claims 5, 10, 16 and 18 are rejected under 35 U.S.C. 102(b) as being anticipated by Granel et al. (US 5,869,583).

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The reference discloses an initiating system comprising a radical generator and a transition metal complex (col. 2, lines 16-64). Examples 1-37 provide numerous homoand copolymerizations comprising nickel complexes comprising both a bidentate ligand and a halide ligand, and therefore includes all claimed limitations.

4. Claims 5, 7 and 16-19 are rejected under 35 U.S.C. 102(b) as being anticipated by Chabert et al. (US 3,985,718).

The reference discloses in Example 2 ethylene polymerization in the presence of a three-component composition including ferric acetylacetonate, lauroyl peroxide and vanadyl acetylacetonate (acting as a cocatalyst), and therefore includes all claimed limitations.

5. Claims 5, 7 and 16-19 are rejected under 35 U.S.C. 102(b) as being anticipated by Foucher et al. (US 5,744,560).

The reference shows in Examples V and IX styrene polymerization in the presence of a composition comprising Ni or Co with two hfac ligands, benzoyl peroxide and TEMPO (acting as a cocatalyst) and therefore includes all claimed limitations.

Claim Rejections - 35 USC § 103

6. Claims 7 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Granel et al. (US 5,869,583).

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The only components missing from the reference disclosure as discussed in item 3 above is the use a peroxide as the radical producer. However, the reference suggests the use of such compounds at col. 6, lines 54-63, providing suitable motivation for those of ordinary skill in the art to use a peroxide in the initiator compositions shown in the working examples, with reasonable success expected.

7. Claims 1, 3, 10, 11, 13-15 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chabert et al. (US 3,985,718).

The only components missing from the reference disclosure as discussed in item 4 above is the making of a copolymer of the recited monomers and the making of a molded article. Regarding copolymerization, patentee discloses and claims copolymerization including polar monomers and olefins (col. 4, line 57 through col. 5, line 2; claim 1), and specifically names several species within the claimed scope, including vinyl chloride, ethylene and propylene. One of ordinary skill I the art would be motivated to make copolymers of the claimed monomers using the methods shown in the working examples because patentee has suggested such copolymerizations, with reasonable success expected. Regarding the making of moldings, the reference is concerned primarily with the details of polymerization, and has not set forth any specifically recommended applications for the polymers produced; however, official notice is taken the making of moldings using the general types of polymers disclosed in the reference is entirely conventional. Therefore, one of ordinary skill in the art would

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be motivated to make at least the most simple types of moldings with the polymers disclosed and suggested in the reference because such use is conventional.

8. Claims 1, 3, 10, 11, 13-15 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Foucher et al. (US 5,744,560).

The only components missing from the reference disclosure as discussed in item 5 above is the making of a copolymer of the recited monomers and the making of an adhesive. Regarding copolymerization, patentee specifically suggests copolymers such as poly-(styrene-butadiene) and poly-(styrene-isoprene) (col. 12, lines 43-52), providing one of ordinary skill in the art motivation to make such copolymers using the methods disclosed in the working examples. Regarding the making of adhesives, patentee recommends this use at col. 2, line 63, providing one of ordinary skill in the art motivation to make adhesives of the disclosed polymers. Reasonable success would be expected when using these additional or alternative embodiments because patentee has recommended them.

Allowable Subject Matter

9. Claims 2, 4, 8, 9 and 20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The references cited on this record have not disclosed these particular cocatalysts or the specified insertion polymerization method.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roberto Rábago whose telephone number is (571) 272-1109. The examiner can normally be reached on Monday - Friday from 8:30 am - 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu can be reached on (571) 272-1114. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Roberto Rábago

Primary Examiner

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